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ABSTRACT

The present invention provides a light emitting device comprising: a light output; a light source that produces light having a wavelength of 530 nm or less; and a wavelength transformer located between the light source and the light output, where the wavelength transformer comprises $\text{Sr}_{1-x}\text{Ca}_x\text{Ga}_2\text{S}_4\cdot y\text{Eu}^{2+}\cdot z\text{Ga}_2\text{S}_3$, where x is 0.0001 to 1, y is a value defining sufficient Eu^{2+} to provide luminescent emission, and z is 0.0001 to 0.2 based on the mole amount of $\text{Sr}_x\text{Ca}_{1-x}\text{Ga}_2\text{S}_4$, and where the wavelength transformer effectively increases the light at the light output, the light having a wavelength between 535 nm and 560 nm.